



Memorandum

To: Sharon Smith, Assistant Director – Metro Public Works

From: Martin Sanford, CDM Smith

Date: October 16, 2017

*Subject: Metro Nashville Waste Stream & Recycling Characterization Study
Fall Sort – Week #1 Summary*

The CDM Smith team completed sorting activities for week #1 (October 9-13, 2017) of the Fall Sort. Week 1 sorting activities were conducted concurrently at the Waste Management River Hills MRF and the Republic Services Transfer Station. A summary of the week 1 activities and results is provided below.

Week 1 went well and the teams had reasonable weather conditions with a mix of hot, rainy, muggy, and pleasant/mild temperatures. The Waste Management MRF and Republic Transfer Station facility sorting teams each consisted of six staff working 10-hour days Monday through Friday.

Monday was the slower day at both sites due to time spent for: (a) training staff and health and safety discussions and (b) identifying space to stage samples (i.e. facilities were already full of material). Tuesday through Thursday were productive sampling days. During Friday, the Republic Transfer Station team received two loads (hospital and arena) that took an especially long time to process. At the end of Friday, the sorting set-up was moved from the Republic transfer station to the Waste Management Antioch Transfer Station,

We started this sorting event with the goal of obtaining sampling percentage mixes (similar to the summer event at the Antioch Transfer Station) for residential/industrial, commercial, and institutional (ICI); Metro/Private; and USD/GSD. Based on the work conducted during this first week, we are on target to meet the following sampling distributions:

- Metro 25% Private 75%
- RES 50% ICI 50%

Week one summary of samples:

		RES	ICI	Total
Republic TS	Mon	2	4	6
	Tu	7	3	10
	Wed	6	3	9
	Thurs	9	2	11
	Fri	5	3	8
Week total:				44

		RES	ICI	Total
WM MRF	Mon	1	8	9
	Tu	7	4	11
	Wed	6	3	9
	Thurs	7	4	11
	Fri	6	4	10
Week total:				50

Fall Sort Photos:



Sort Table Set Up



Processing Sample



Plastic, metal, and aluminum containers



Weighting Material Bins Post Sort



Hand Sorting Table



Residential Hall Tipping